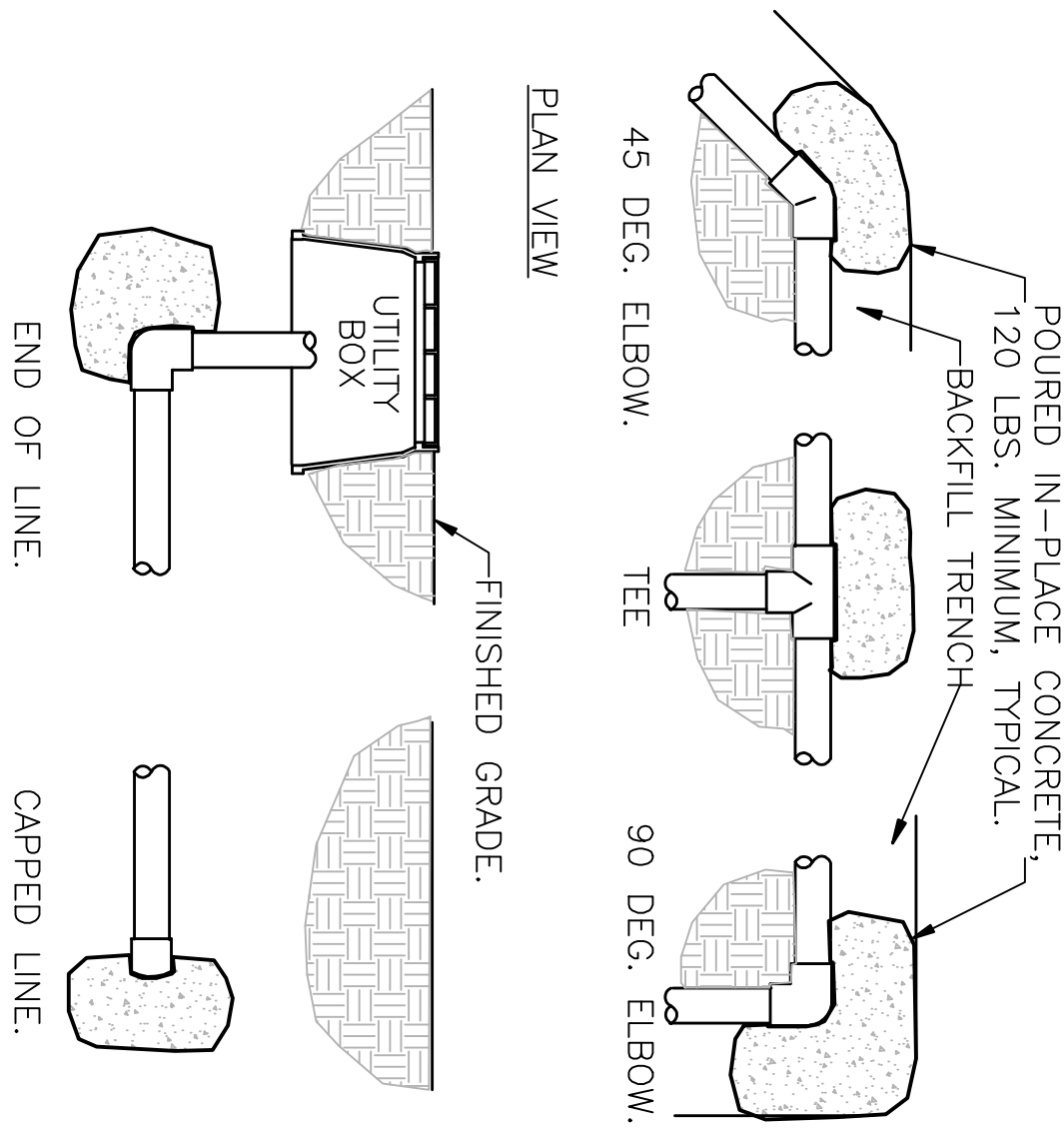
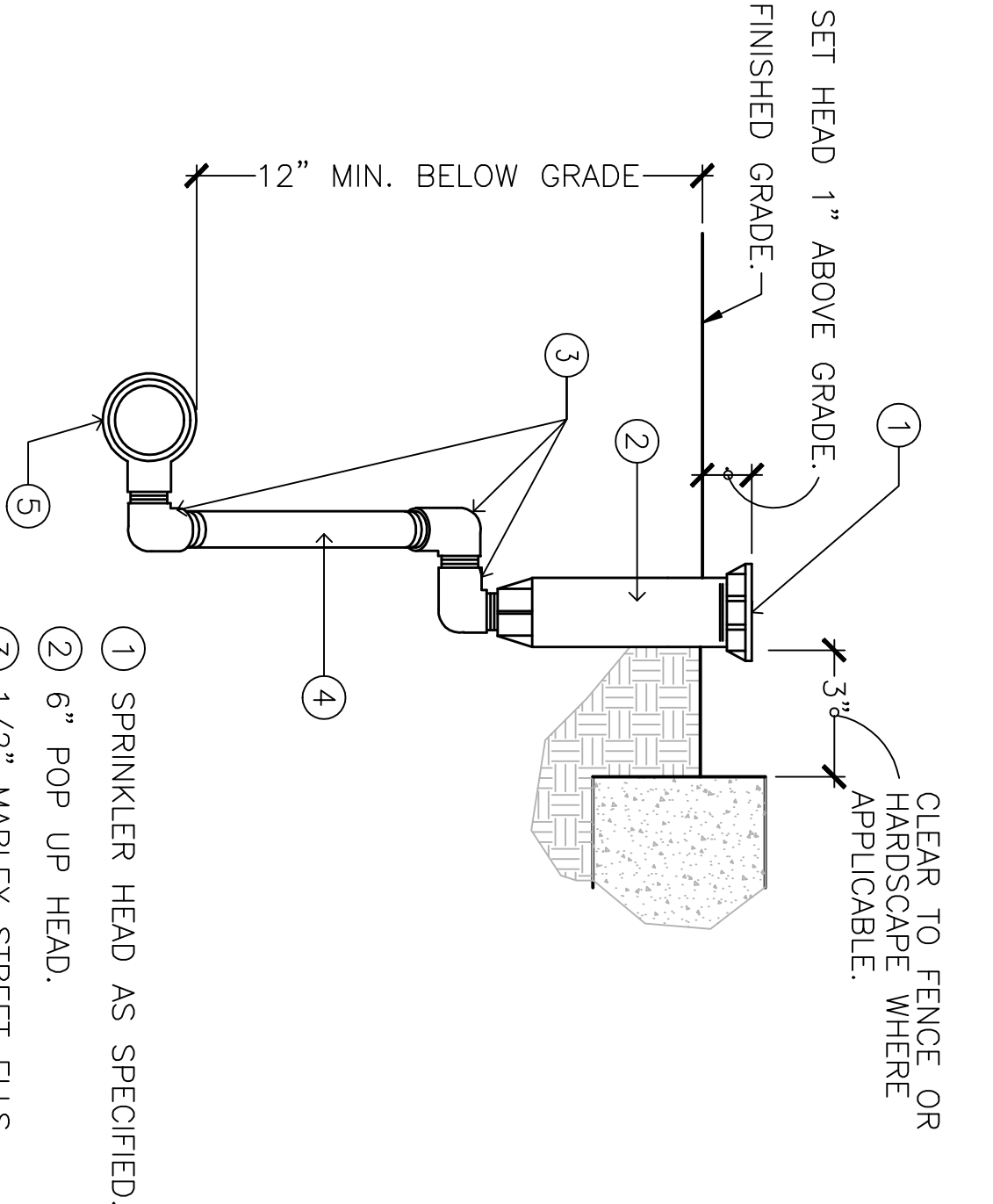


NOTE: INSTALL HUNTER FLUER FABRIC SLEEVE- #RWSSLEEVE

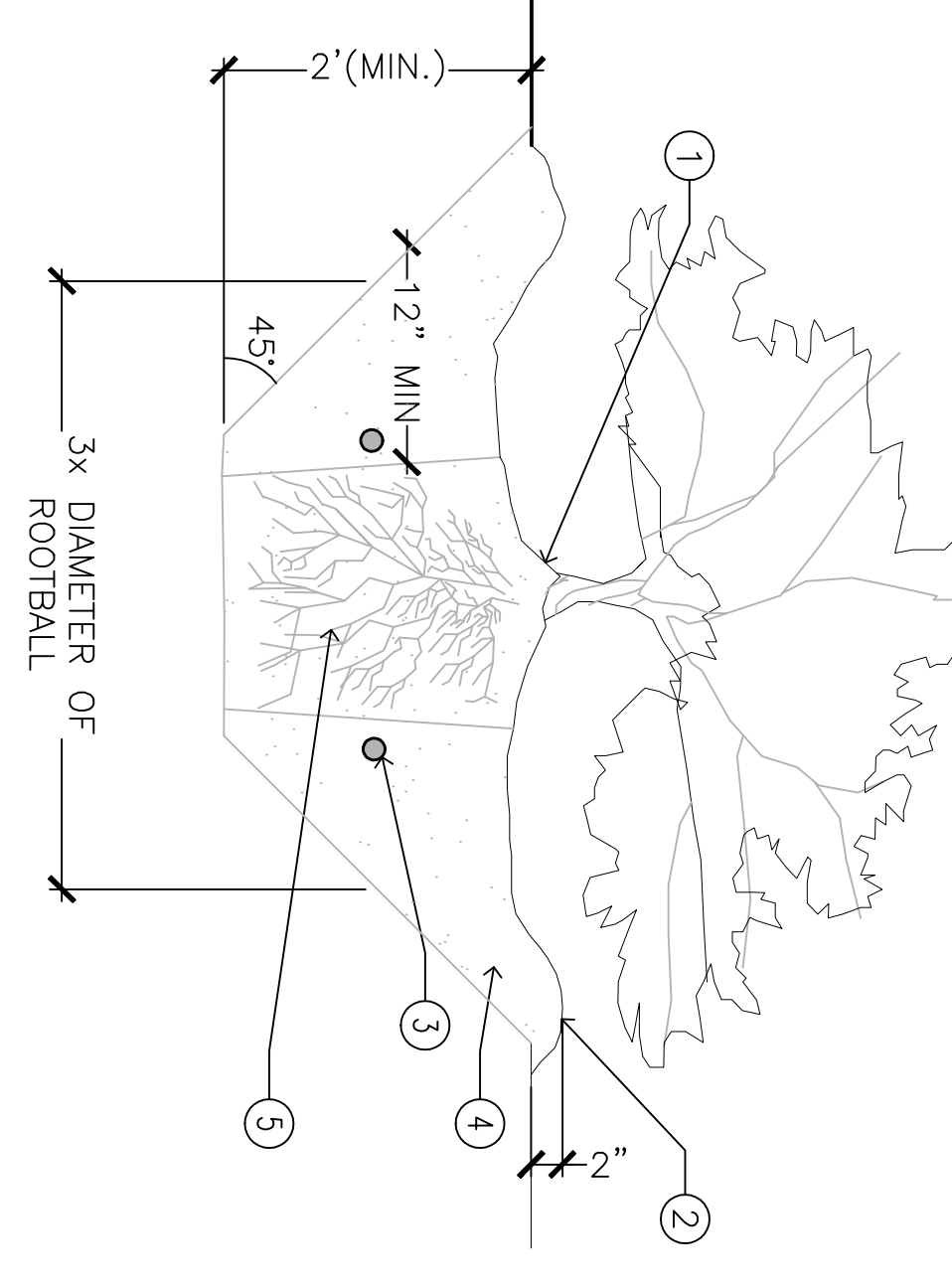
Hunter IRRIGATION DETAIL



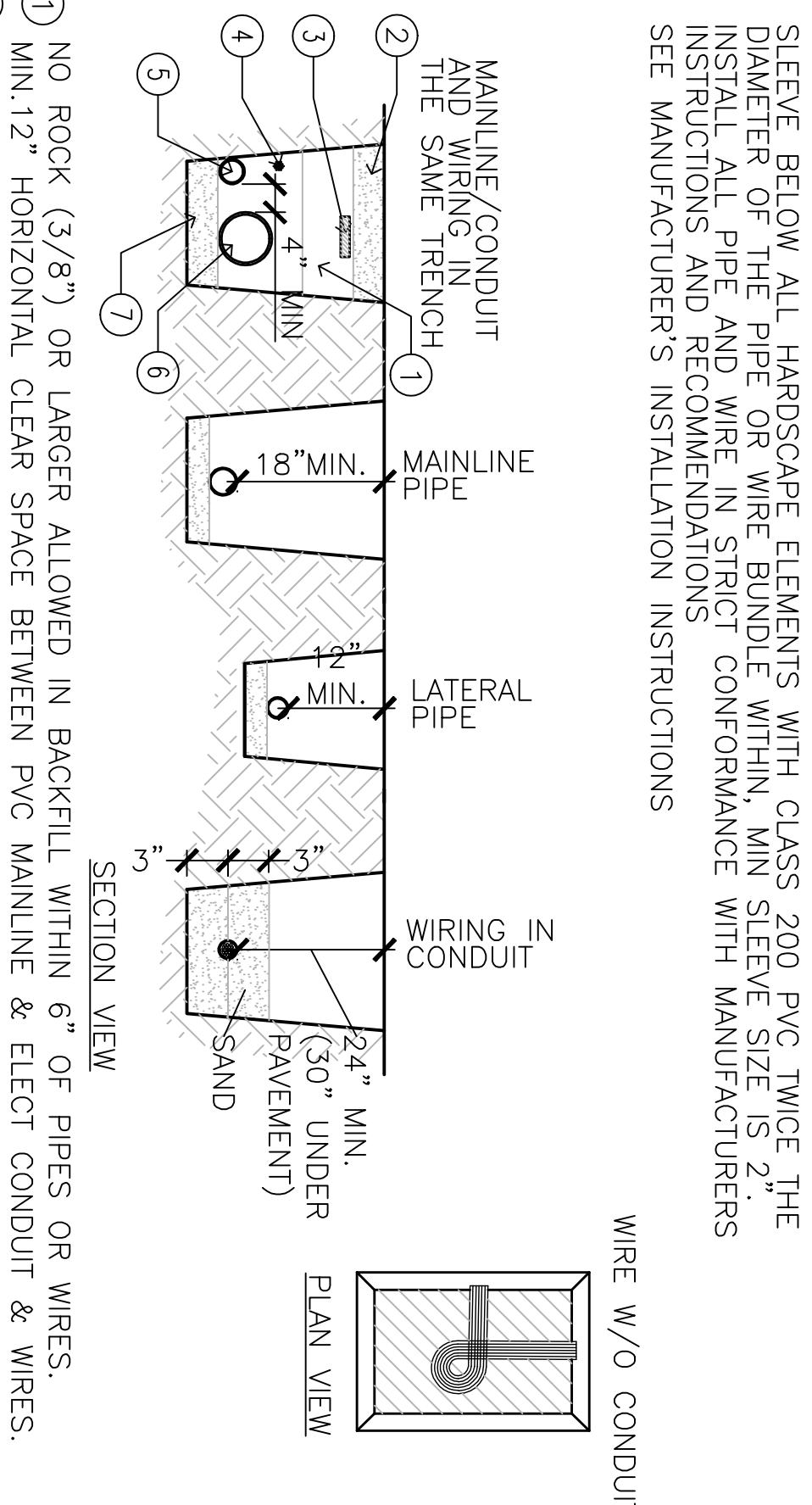
NOTE:
1. ALL CONCRETE USED IN THRUST BLOCKS SHALL BE 2500 PSI MIN.
2. SUPPLY LINES 2" & LARGER SHALL RECEIVE CONCRETE SUPPLY BLOCKING
3. ALL MAINLINES SHALL BE INSTALLED AND TESTED AS PER MANUFACTURER'S INSTALLATION SPECIFICATIONS AND CONTRACT SPECIFICATIONS



1. SPRINKLER HEAD AS SPECIFIED.
2. 6" POP UP HEAD.
3. 1/2" MARLEX STREET ELTS.
4. SCHEDULE 80 PVC NIPPLE, SET AT 45 DEGREE ANGLE.
5. LATERAL LINE AND PVC TEE.



1. TOP OF ROOT BALL TO BE SET SLIGHTLY ABOVE FINISH GRADE
2. WATERING BASIN BERM 2"
3. AGRIFORM PLANT FERTILIZER TABLETS
4. BACKFILL MIX AS PER CONTRACT SPECIFICATIONS
5. ROOTBALL



NOTES:
1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH CLASS 200 PVC TWICE THE DIAMETER OF THE PIPE OR WIRE BUNDLE WITHIN. MIN SLEEVE SIZE IS 2".
2. INSTALL ALL PIPE AND WIRE IN STRICT CONFORMANCE WITH MANUFACTURERS INSTRUCTIONS AND RECOMMENDATIONS
3. SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS

36" ROOT ZONE - WATERING SYSTEM

SCALE: 3/8" = 1'-0"

THRUST BLOCKING

SCALE: 3/8" = 1'-0"

6" SHRUB SPRAY

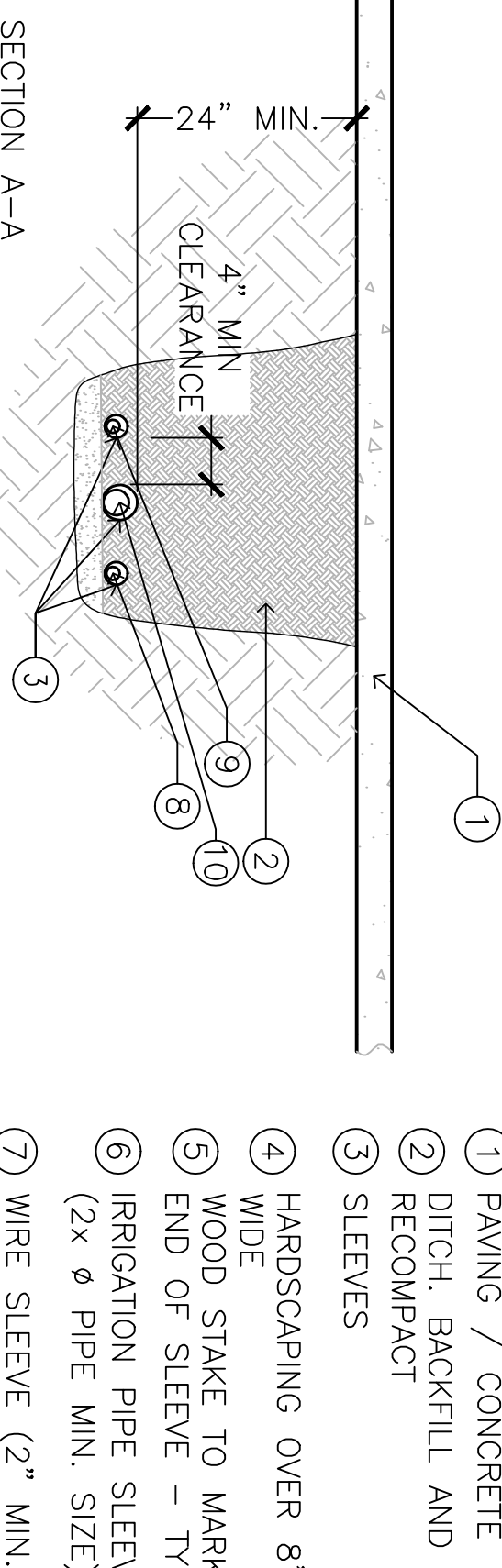
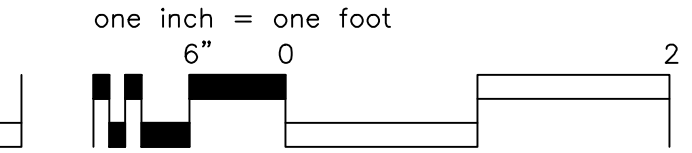
SCALE: 3/8" = 1'-0"

SHRUB PLANTING

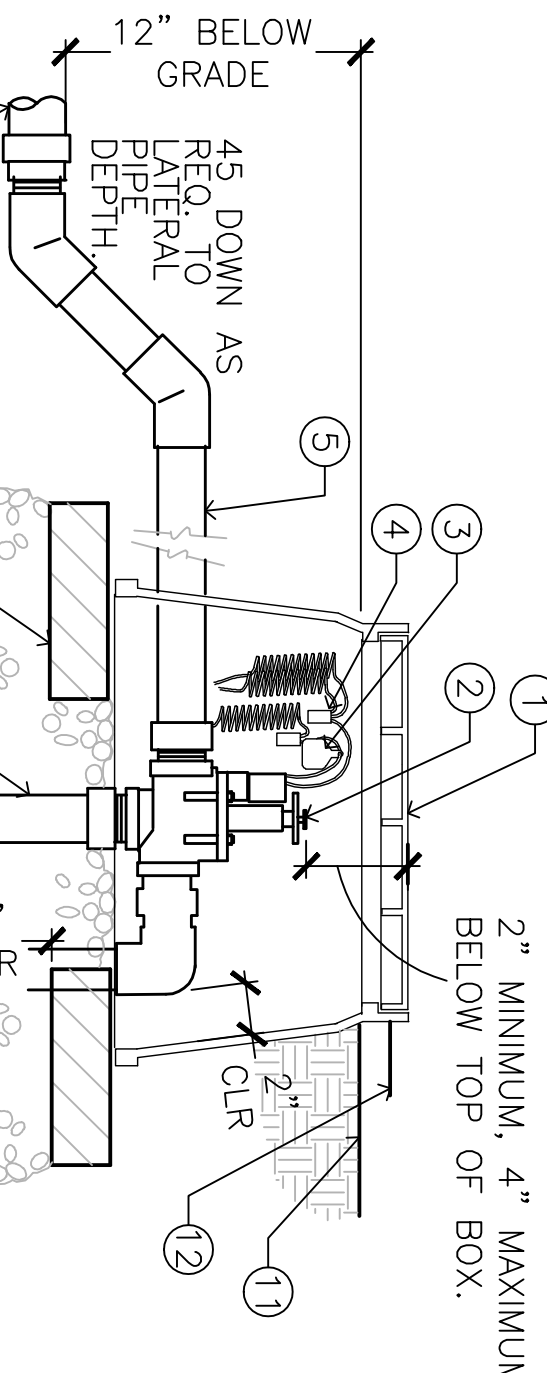
SCALE: 3/8" = 1'-0"

TRENCHING

SCALE: 3/8" = 1'-0"

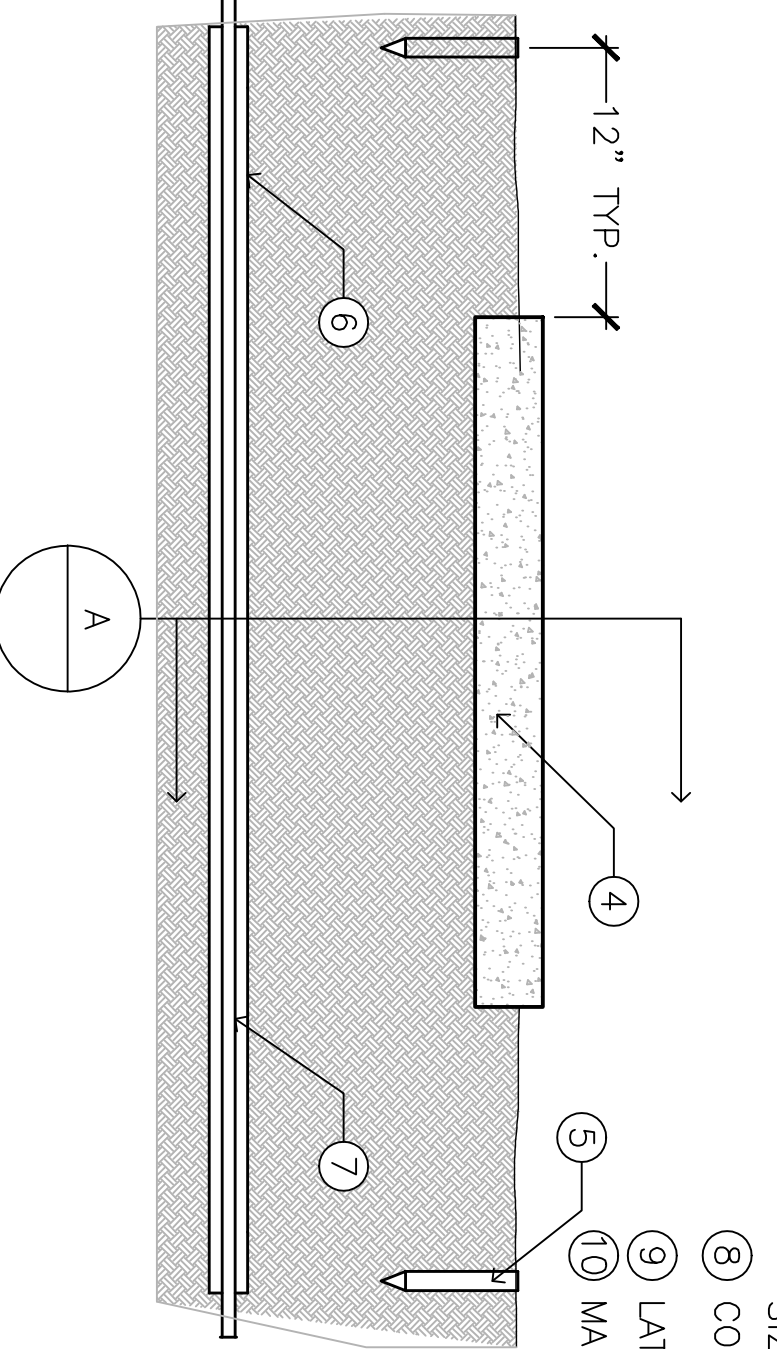
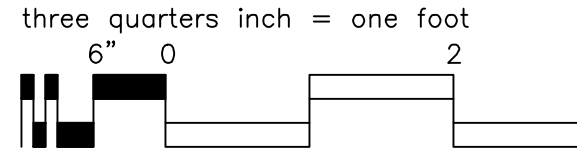


1. PAVING / CONCRETE
2. DITCH, BACKFILL AND RECOMPACT
3. SLEEVES
4. HARDSCAPING OVER 8" WIDE
5. WOOD STAKE TO MARK END OF SLEEVE - TYP
6. IRRIGATION PIPE SLEEVE (2x Ø PIPE MIN. SIZE)
7. WIRE SLEEVE (2" MIN. SIZE)
8. CONTROL WIRES
9. LATERAL LINE
10. MAIN LINE

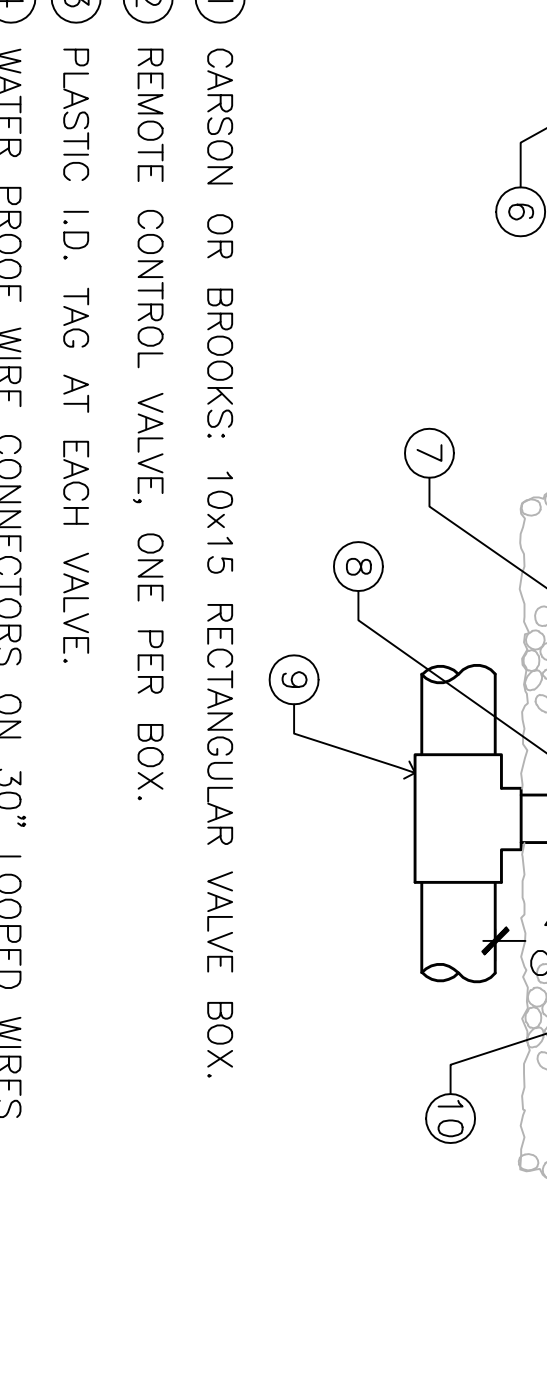


1. CARSON OR BROOKS: 10x15 RECTANGULAR VALVE BOX.
2. REMOTE CONTROL VALVE, ONE PER BOX.
3. PLASTIC I.D. TAG AT EACH VALVE.
4. WATER PROOF WIRE CONNECTORS ON 30" LOOPED WIRES.
5. OUTLET PIPE SAME SIZE AS VALVE, 24" MIN. TO FIRST FITTING.
6. INCREASE LATERAL LINE AS PER IRRIGATION PLAN.
7. CONCRETE BRICK SUPPORT, TWO ON EACH SIDE.
8. SCHEDULE 80 RISER.
9. MAIN LINE.
10. 6" THICK LAYER OF PEA GRAVEL.
11. 2" ABOVE FINISH GRADE AT SHRUBS AND GROUNDCOVER AREAS.
12. 3/4" ABOVE FINISH GRADE AT LAMN.

1. ALL TREES NOT LOCATED WITHIN THE LIMITS OF CONSTRUCTION AND OUTSIDE OF DISTURBED AREAS SHALL BE PRESERVED. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL TREES TO BE PRESERVED FROM HIS ACTIVITIES.
2. ALL TREES SHOWN TO BE RETAINED WITHIN THE LIMITS OF CONSTRUCTION ON THE PLANS, SHALL BE PROTECTED DURING CONSTRUCTION WITH CONSTRUCTION FENCING.
3. PRIOR TO EXCAVATION OR GRADE CUTTING WITHIN TREE DRILPLINES, A CLEAN CUT SHALL BE MADE WITH A CHAINSAW WITH CARBIDE TIPS, AXE MATTOCKS OR SIMILAR EQUIPMENT, IN A LOCATION AND TO A DEPTH APPROVED BY THE VA COR, TO MINIMIZE DAMAGE TO REMAINING ROOTS.
4. TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES WILL BE WATERED DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. TREE CROWNS ARE TO BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON LEAVES.
5. WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE, A PLASTIC VAPOR BARRIER SHALL BE PLACED BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE CRITICAL ROOT ZONE.
6. ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.
7. NO LANDSCAPE TOPSOIL, PRESSING GREATER THAN FOUR (4) INCHES SHALL BE PERMITTED WITHIN THE DRILPLINE OR CRITICAL ROOT ZONE OF TREES, WHICHEVER IS GREATER. NO TOPSOIL IS PERMITTED ON ROOT FLARES OF ANY TREE.
8. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC, AND CONSTRUCTION EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS. ALL PRUNING MUST BE DONE ACCORDING TO VA STANDARDS AND AS OUTLINED IN LITERATURE PROVIDED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA PRUNING TECHNIQUES).
9. TREES APPROVED FOR REMOVAL SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.
10. REMOVE AND PROPERLY DISPOSE TREE STUMP AND ANY ROOT LARGER THAN 2"

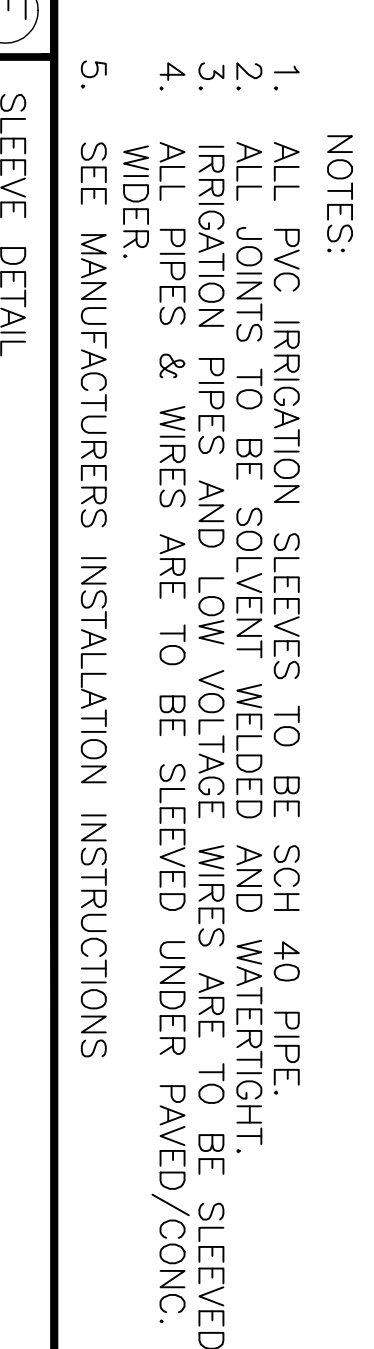
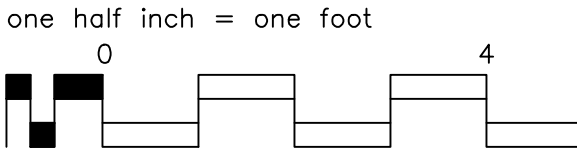


1. PAVING / CONCRETE
2. DITCH, BACKFILL AND RECOMPACT
3. SLEEVES
4. HARDSCAPING OVER 8" WIDE
5. WOOD STAKE TO MARK END OF SLEEVE - TYP
6. IRRIGATION PIPE SLEEVE (2x Ø PIPE MIN. SIZE)
7. WIRE SLEEVE (2" MIN. SIZE)
8. CONTROL WIRES
9. LATERAL LINE
10. MAIN LINE

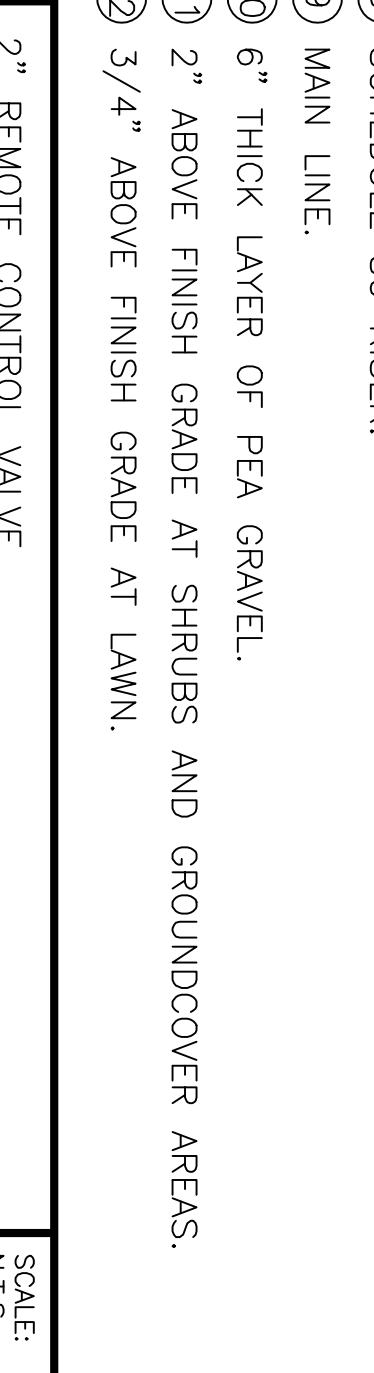


1. CARSON OR BROOKS: 10x15 RECTANGULAR VALVE BOX.
2. REMOTE CONTROL VALVE, ONE PER BOX.
3. PLASTIC I.D. TAG AT EACH VALVE.
4. WATER PROOF WIRE CONNECTORS ON 30" LOOPED WIRES.
5. OUTLET PIPE SAME SIZE AS VALVE, 24" MIN. TO FIRST FITTING.
6. INCREASE LATERAL LINE AS PER IRRIGATION PLAN.
7. CONCRETE BRICK SUPPORT, TWO ON EACH SIDE.
8. SCHEDULE 80 RISER.
9. MAIN LINE.
10. 6" THICK LAYER OF PEA GRAVEL.
11. 2" ABOVE FINISH GRADE AT SHRUBS AND GROUNDCOVER AREAS.
12. 3/4" ABOVE FINISH GRADE AT LAMN.

1. ALL TREES NOT LOCATED WITHIN THE LIMITS OF CONSTRUCTION AND OUTSIDE OF DISTURBED AREAS SHALL BE PRESERVED. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL TREES TO BE PRESERVED FROM HIS ACTIVITIES.
2. ALL TREES SHOWN TO BE RETAINED WITHIN THE LIMITS OF CONSTRUCTION ON THE PLANS, SHALL BE PROTECTED DURING CONSTRUCTION WITH CONSTRUCTION FENCING.
3. PRIOR TO EXCAVATION OR GRADE CUTTING WITHIN TREE DRILPLINES, A CLEAN CUT SHALL BE MADE WITH A CHAINSAW WITH CARBIDE TIPS, AXE MATTOCKS OR SIMILAR EQUIPMENT, IN A LOCATION AND TO A DEPTH APPROVED BY THE VA COR, TO MINIMIZE DAMAGE TO REMAINING ROOTS.
4. TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES WILL BE WATERED DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. TREE CROWNS ARE TO BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON LEAVES.
5. WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE, A PLASTIC VAPOR BARRIER SHALL BE PLACED BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE CRITICAL ROOT ZONE.
6. ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.
7. NO LANDSCAPE TOPSOIL, PRESSING GREATER THAN FOUR (4) INCHES SHALL BE PERMITTED WITHIN THE DRILPLINE OR CRITICAL ROOT ZONE OF TREES, WHICHEVER IS GREATER. NO TOPSOIL IS PERMITTED ON ROOT FLARES OF ANY TREE.
8. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC, AND CONSTRUCTION EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS. ALL PRUNING MUST BE DONE ACCORDING TO VA STANDARDS AND AS OUTLINED IN LITERATURE PROVIDED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA PRUNING TECHNIQUES).
9. TREES APPROVED FOR REMOVAL SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.
10. REMOVE AND PROPERLY DISPOSE TREE STUMP AND ANY ROOT LARGER THAN 2"

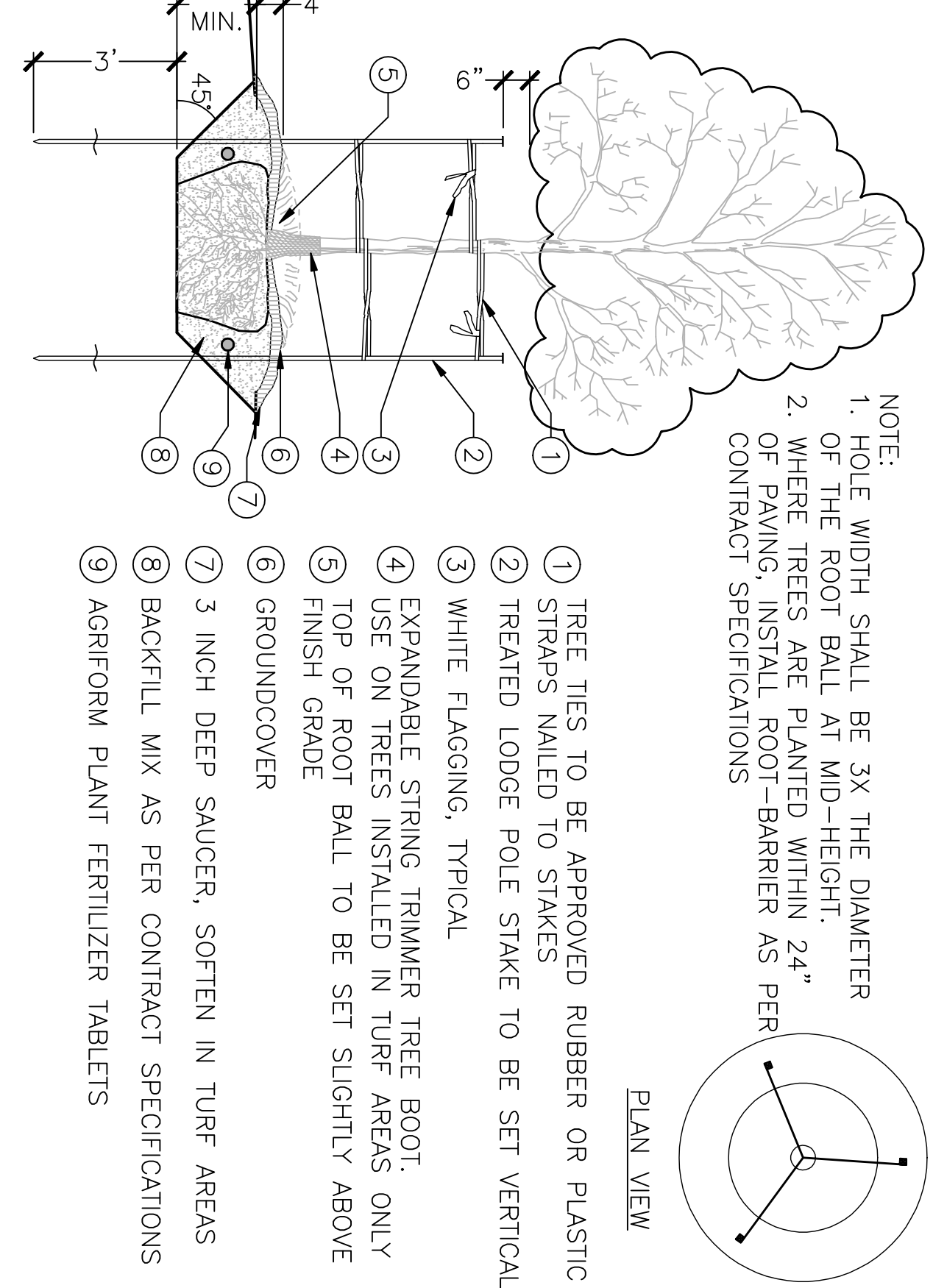
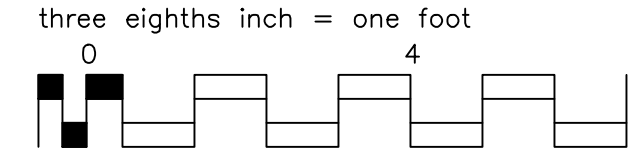


1. PAVING / CONCRETE
2. DITCH, BACKFILL AND RECOMPACT
3. SLEEVES
4. HARDSCAPING OVER 8" WIDE
5. WOOD STAKE TO MARK END OF SLEEVE - TYP
6. IRRIGATION PIPE SLEEVE (2x Ø PIPE MIN. SIZE)
7. WIRE SLEEVE (2" MIN. SIZE)
8. CONTROL WIRES
9. LATERAL LINE
10. MAIN LINE

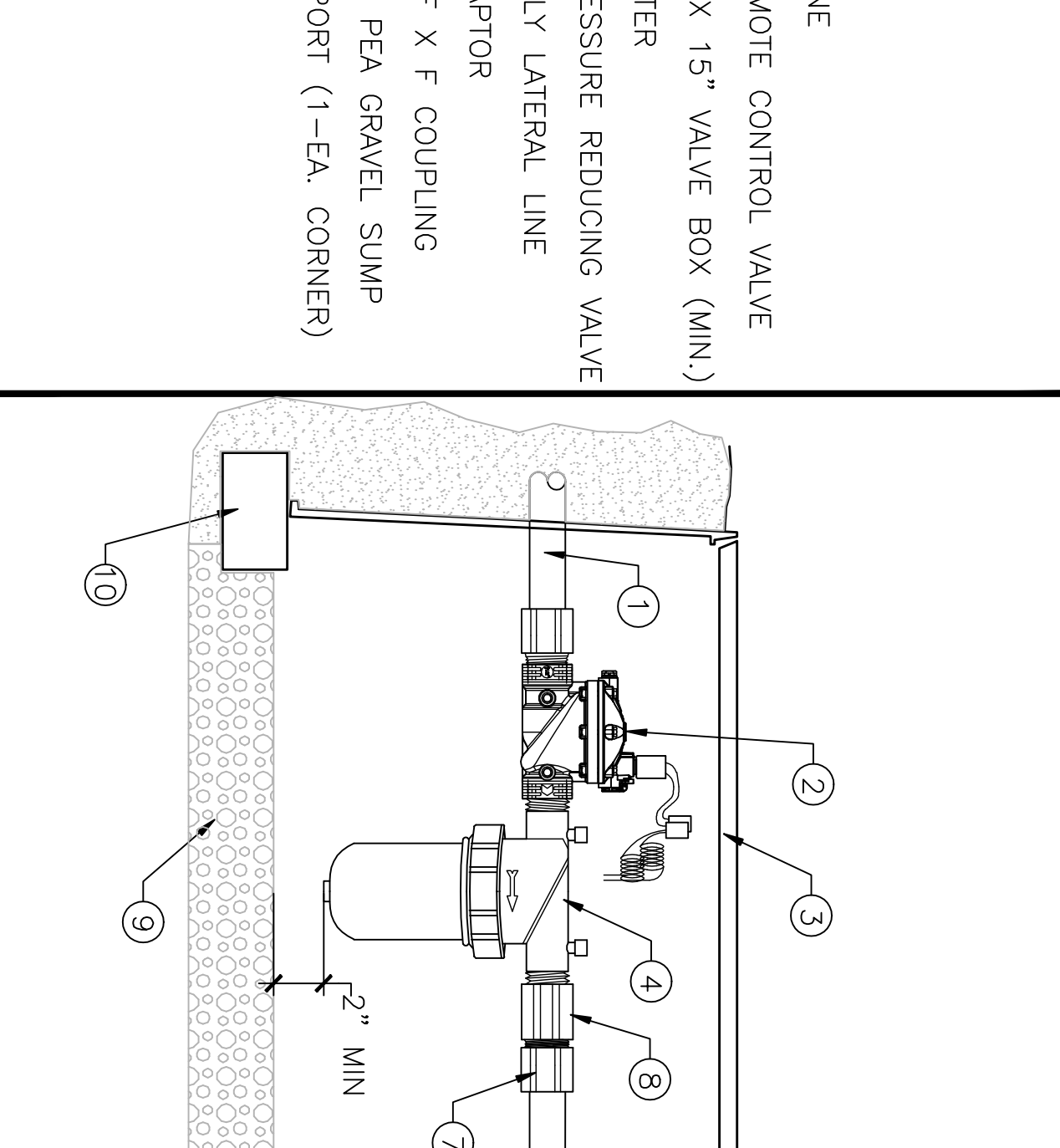


1. CARSON OR BROOKS: 10x15 RECTANGULAR VALVE BOX.
2. REMOTE CONTROL VALVE, ONE PER BOX.
3. PLASTIC I.D. TAG AT EACH VALVE.
4. WATER PROOF WIRE CONNECTORS ON 30" LOOPED WIRES.
5. OUTLET PIPE SAME SIZE AS VALVE, 24" MIN. TO FIRST FITTING.
6. INCREASE LATERAL LINE AS PER IRRIGATION PLAN.
7. CONCRETE BRICK SUPPORT, TWO ON EACH SIDE.
8. SCHEDULE 80 RISER.
9. MAIN LINE.
10. 6" THICK LAYER OF PEA GRAVEL.
11. 2" ABOVE FINISH GRADE AT SHRUBS AND GROUNDCOVER AREAS.
12. 3/4" ABOVE FINISH GRADE AT LAMN.

1. ALL TREES NOT LOCATED WITHIN THE LIMITS OF CONSTRUCTION AND OUTSIDE OF DISTURBED AREAS SHALL BE PRESERVED. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL TREES TO BE PRESERVED FROM HIS ACTIVITIES.
2. ALL TREES SHOWN TO BE RETAINED WITHIN THE LIMITS OF CONSTRUCTION ON THE PLANS, SHALL BE PROTECTED DURING CONSTRUCTION WITH CONSTRUCTION FENCING.
3. PRIOR TO EXCAVATION OR GRADE CUTTING WITHIN TREE DRILPLINES, A CLEAN CUT SHALL BE MADE WITH A CHAINSAW WITH CARBIDE TIPS, AXE MATTOCKS OR SIMILAR EQUIPMENT, IN A LOCATION AND TO A DEPTH APPROVED BY THE VA COR, TO MINIMIZE DAMAGE TO REMAINING ROOTS.
4. TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES WILL BE WATERED DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. TREE CROWNS ARE TO BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON LEAVES.
5. WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE, A PLASTIC VAPOR BARRIER SHALL BE PLACED BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE CRITICAL ROOT ZONE.
6. ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.
7. NO LANDSCAPE TOPSOIL, PRESSING GREATER THAN FOUR (4) INCHES SHALL BE PERMITTED WITHIN THE DRILPLINE OR CRITICAL ROOT ZONE OF TREES, WHICHEVER IS GREATER. NO TOPSOIL IS PERMITTED ON ROOT FLARES OF ANY TREE.
8. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC, AND CONSTRUCTION EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS. ALL PRUNING MUST BE DONE ACCORDING TO VA STANDARDS AND AS OUTLINED IN LITERATURE PROVIDED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA PRUNING TECHNIQUES).
9. TREES APPROVED FOR REMOVAL SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.
10. REMOVE AND PROPERLY DISPOSE TREE STUMP AND ANY ROOT LARGER THAN 2"

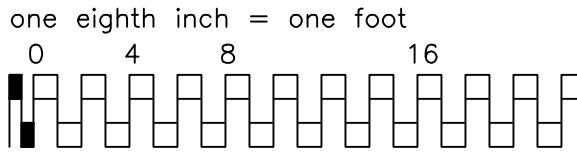
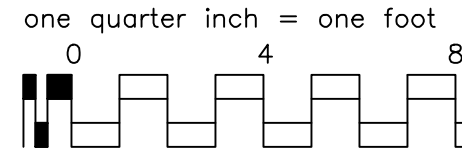


1. HOLE WIDTH SHALL BE 3X THE DIAMETER OF THE ROOT BALL AT MID-HEIGHT.
2. WHERE TREES ARE PLANTED WITHIN 24" OF PAVING, INSTALL ROOT-BARRIER AS PER CONTRACT SPECIFICATIONS



1. PAVING / CONCRETE
2. DITCH, BACKFILL AND RECOMPACT
3. SLEEVES
4. HARDSCAPING OVER 8" WIDE
5. WOOD STAKE TO MARK END OF SLEEVE - TYP
6. IRRIGATION PIPE SLEEVE (2x Ø PIPE MIN. SIZE)
7. WIRE SLEEVE (2" MIN. SIZE)
8. CONTROL WIRES
9. LATERAL LINE
10. MAIN LINE

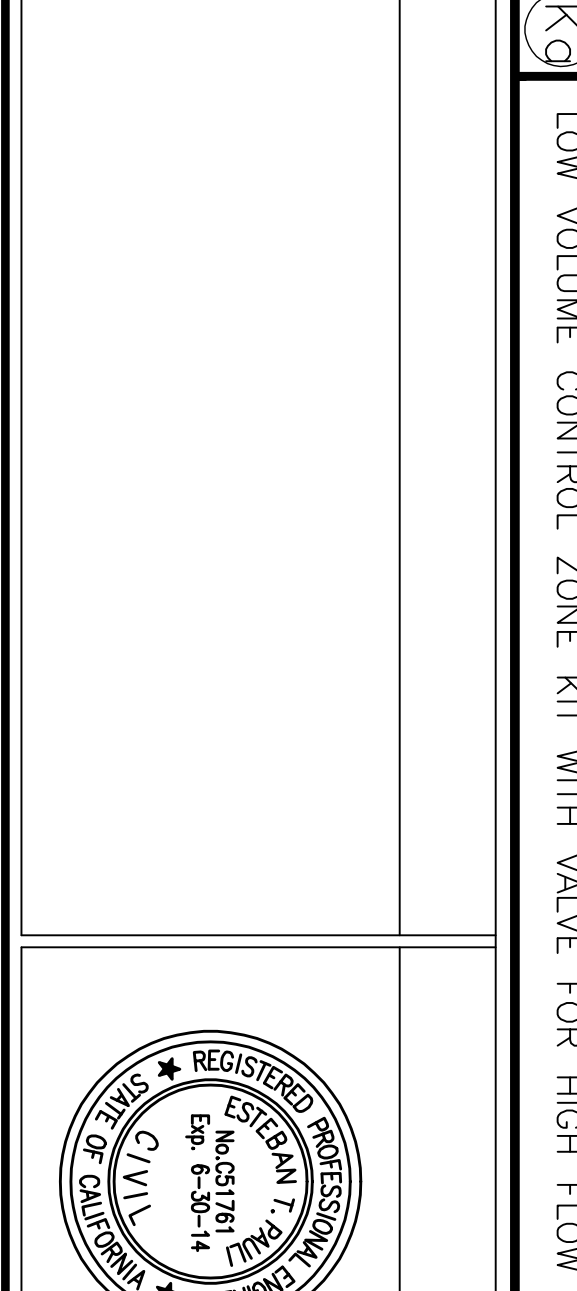
1. ALL TREES NOT LOCATED WITHIN THE LIMITS OF CONSTRUCTION AND OUTSIDE OF DISTURBED AREAS SHALL BE PRESERVED. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL TREES TO BE PRESERVED FROM HIS ACTIVITIES.
2. ALL TREES SHOWN TO BE RETAINED WITHIN THE LIMITS OF CONSTRUCTION ON THE PLANS, SHALL BE PROTECTED DURING CONSTRUCTION WITH CONSTRUCTION FENCING.
3. PRIOR TO EXCAVATION OR GRADE CUTTING WITHIN TREE DRILPLINES, A CLEAN CUT SHALL BE MADE WITH A CHAINSAW WITH CARBIDE TIPS, AXE MATTOCKS OR SIMILAR EQUIPMENT, IN A LOCATION AND TO A DEPTH APPROVED BY THE VA COR, TO MINIMIZE DAMAGE TO REMAINING ROOTS.
4. TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES WILL BE WATERED DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. TREE CROWNS ARE TO BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON LEAVES.
5. WHEN INSTALLING CONCRETE ADJACENT TO THE ROOT ZONE OF A TREE, A PLASTIC VAPOR BARRIER SHALL BE PLACED BEHIND THE CONCRETE TO PROHIBIT LEACHING OF LIME INTO THE CRITICAL ROOT ZONE.
6. ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.
7. NO LANDSCAPE TOPSOIL, PRESSING GREATER THAN FOUR (4) INCHES SHALL BE PERMITTED WITHIN THE DRILPLINE OR CRITICAL ROOT ZONE OF TREES, WHICHEVER IS GREATER. NO TOPSOIL IS PERMITTED ON ROOT FLARES OF ANY TREE.
8. PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC, AND CONSTRUCTION EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS. ALL PRUNING MUST BE DONE ACCORDING TO VA STANDARDS AND AS OUTLINED IN LITERATURE PROVIDED BY THE INTERNATIONAL SOCIETY OF ARBORICULTURE (ISA PRUNING TECHNIQUES).
9. TREES APPROVED FOR REMOVAL SHALL BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.
10. REMOVE AND PROPERLY DISPOSE TREE STUMP AND ANY ROOT LARGER THAN 2"



Revision	Date

CONSULTANTS:

SCALE: 3/8" = 1'-0"



PAULI ENGINEERING, INC.
2501 N SHAW AVE, SUITE 121 - FRESNO, CA 93711
PH: (559) 237-4408 - FAX: (559) 237-4409
E-MAIL: pauliengineering@comcast.net
www.pauliengineering.com

ARCHITECT/ENGINEERS:

Project Title	Project Number
SITE IRRIGATION AND LANDSCAPE IMPROVEMENTS	570-12-200
Location	Bidding Number
2615 E Clinton Ave, Fresno, CA	CAMPUS
Date	Dwg
10/2008	1

Office of Construction and Facilities Management
Department of Veterans Affairs